BRUHAT BANGALORE MAHANAGARA PALIKE					
PREPARATION OF DPR FOR PACKAGE NO. 08					
(PACKAGE CONSISTS OF 21 WORKS IN WARD NO 08 AND 09 WARD NO 09)					
Sl No.	List of Roads				
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division				
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.				
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.				
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.				
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.				
q	Improvements and Asphalting to Roads and Drains at HMT Layout, JECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.				
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.				
ABSTRACT ESTIMATE					
Sl. No.	Description of Work	Unit	Quantity	Rate in Figures	Rate in Words

1	**Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**8276.80**	**86.92**	**719419.1732**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		123.90		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1236.30		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1683.88		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		379.19		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		529.36		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		840.64		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		622.12		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		837.12		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		547.86		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		573.22		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		607.35		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		6.87		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		50.99		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.81		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.86		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		236.32		

2	**Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms as per the directions of the Engineer-in-charge of the work .**	**Cum**	**17722.13**	**116.00**	**2055766.749**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		456.17		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1236.30		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1924.79		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		583.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		557.65		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		866.85		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		640.89		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		837.12		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		628.59		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		612.31		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1284.95		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		775.53		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		1006.91		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		463.02		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1015.52		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		524.88		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1189.33		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		678.93		

s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1368.70		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1069.94		
3	**Removing and refixing stone slabs of drains and pointing in CM (1:3) as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**7079.30**	**80.56**	**570308.1502**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		187.92		
c	Improvements to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli ward No.08		3368.30		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		689.76		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2036.48		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		343.64		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		179.30		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		194.88		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		79.02		
4	**Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**1375.58**	**665.68**	**915698.0914**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		10.44		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		187.13		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		172.44		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		872.78		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		57.27		

q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		29.88		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		32.48		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		13.17		
5	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)**	**Sqm**	**2251.19**	**825.74**	**1858895.979**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		10.44		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		187.13		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		265.12		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		126.38		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		149.35		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		329.33		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		127.98		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		301.28		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		212.35		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		260.37		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		281.46		

q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		29.88		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		32.48		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		13.17		
5	**Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)**	**Sqm**	**2251.19**	**825.74**	**1858895.979**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		10.44		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		187.13		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		265.12		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		126.38		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		149.35		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		329.33		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		127.98		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		301.28		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		212.35		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		260.37		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		281.46		

6	**Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1184.76**	**5348.76**	**6337018.293**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		339.47		
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		68.19		
c	Improvements to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli ward No.08		33.25		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		221.71		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		192.11		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		44.30		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.62		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		83.95		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		65.73		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		39.55		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		76.89		
7	**Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1197.25**	**11032.48**	**13208609.1**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		20.63		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		102.38		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		148.77		

e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		93.80		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		113.49		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		42.55		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		272.21		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		174.04		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		63.02		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		166.38		
8	**Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Tonne**	**63.03**	**64243.42**	**4049262.763**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.10		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		5.12		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		5.06		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		5.68		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.47		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		14.15		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		8.71		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2.84		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		9.15		

9	**Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge.**	**Cum**	**3112.23**	**1738.00**	**5409055.74**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		278.34		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		355.50		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		210.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		44.64		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		225.00		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		117.00		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		470.25		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1078.50		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		333.00		
10	**Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge**	**Cum**	**281.64**	**4951.00**	**1394399.64**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		26.25		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		21.06		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		21.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		44.64		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.50		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		32.88		

i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		43.20		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		24.36		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		48.75		
11	**Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1648.43**	**48.76**	**80377.203**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		332.27		
c	Improvements to Roads and Drains at Defense Colony and CQAL Layout at Kodigehalli ward No.08		240.91		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		204.56		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		28.29		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		26.21		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		18.77		
l	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		80.73		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		39.09		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		677.60		
12	**Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**382.58**	**4438.22**	**1697975.317**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		269.16		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		34.22		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		25.92		

j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		34.08		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		19.20		
13	**Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**108.57**	**5305.30**	**575980.5051**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		108.57		
14	**Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**773.59**	**102.82**	**79540.5238**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		430.65		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		57.04		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		43.20		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		210.70		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		32.00		
15	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.530 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**80.27**	**5767.46**	**462945.363**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		37.57		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		10.74		
i	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		20.13		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		10.87		

k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		0.96		
16	**Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**600.60**	**320.12**	**192264.072**
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		423.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		177.60		
16	**Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**1802.35**	**1768.08**	**3186705.169**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		112.06		
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		240.91		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		7.59		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		26.21		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		294.77		
I	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		80.73		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		16.79		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		727.45		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		6.87		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		50.99		

n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.81		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.86		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		236.32		
17	**Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**6635.90**	**30.74**	**203987.566**
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1200.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1321.50		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		2722.40		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1392.00		
18	**Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**11127.74**	**27.56**	**306680.5199**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		1047.45		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		33.00		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		113.95		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1281.60		
l	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		351.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		73.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		3015.50		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		29.89		

m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		2944.08		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3.54		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3.75		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1203.53		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1027.46		
19	**Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen as per the directions of the Engineer-in-charge of the work .**	**Cum**	**210.78**	**7120.02**	**1500722.216**
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		60.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		150.78		
20	**Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**104726.95**	**3.18**	**333031.6883**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		16267.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2715.50		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4351.45		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		3279.90		
l	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1090.50		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1557.00		

l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		8279.13		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		10398.95		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		4153.74		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		10601.97		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		6603.00		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		10456.38		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		8801.76		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		7715.13		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		8454.80		
21	**Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**114857.95**	**12.72**	**1460993.073**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		17315.20		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		2748.50		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4465.40		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		5761.50		
I	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1441.50		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1630.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		6031.00		

l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		8279.13		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		10398.95		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		4153.74		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		10601.97		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		6603.00		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		10456.38		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		8801.76		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		7715.13		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		8454.80		
22	**Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction complete in all respects as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**4743.08**	**8118.54**	**38506887.33**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		692.61		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		106.34		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		178.62		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		182.46		
I	Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		57.66		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		65.20		

k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		120.62		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		372.33		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		457.55		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		182.76		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		466.49		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		290.53		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		460.08		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		391.32		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		339.47		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		379.05		
23	**Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**4320.79**	**542.72**	**2344979.692**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		704.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		94.60		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		206.50		
g	Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		155.00		
i	Improvements to Roads and Drains to Lottegollahalli at Kodigehalli ward No.08		67.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		82.50		

k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		69.38		
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		337.39		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		420.06		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		165.94		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		434.58		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		245.20		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		420.14		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		266.88		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		289.30		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		361.57		
24	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**905.27**	**6217.96**	**5628932.649**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		325.16		

d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		102.28		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		128.88		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		20.10		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		328.86		
25	**Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**5556.35**	**95.40**	**530075.79**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		3251.60		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		1022.80		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		1081.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		200.95		
26	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. i) Lime /Cement Concrete. I. By Manual Means :B. Cement Concrete Grade M-15 & M-20.as per the directions of the Engineer-in-charge of the work .**	**Cum**	**426.14**	**513.19**	**218688.2207**
a	Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		289.05		
d	Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		15.75		
e	Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		108.10		
h	Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		4.25		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		6.89		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli). Kodigehalli Sub Division.		2.10		

27	**Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**420.00**	**966.72**	**406022.4**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		420.00		
28	**Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as per the directions of the Engineer-in-charge of the work .**	**Nos**	**3091.00**	**331.78**	**1025531.98**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		747.00		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		1522.00		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		822.00		
29	**Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications**	**Sqm**	**486.85**	**63.60**	**30963.66**
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		117.60		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		239.75		
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		129.50		
30	**Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) as per the directions of the Engineer-in-charge of the work .**	**m**	**440.00**	**868.14**	**381981.6**

b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		440.00		
31	**Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint as per the directions of the Engineer-in-charge of the work .**	Sqm	957.00	698.54	668502.78
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		957.00		
32	**Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint as per the directions of the Engineer-in-charge of the work .**	m	469.00	343.44	161073.36
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		469.00		
33	**Fabricating, providing and erecting in poiston of Hot dip galvanised M S Ornamental security Grill using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support M S Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C / C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drillling holes. the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings as per the directions of the Engineer-in-charge of the work .**	kg	20.00	9144.14	182882.8
b	Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		20.00		

34	**Removing and resetting of footpath slab as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**626.52**	**132.50**	**83013.9**
c	Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division		142.56		
f	Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		223.56		
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		260.40		
35	**Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**27.36**	**375.39**	**10270.6704**
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		27.36		
36	**Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications (available stones) as per the directions of the Engineer-in-charge of the work .**	**Cum**	**41.04**	**2784.62**	**114280.8048**
j	Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		41.04		
37	**Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. RCC / PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump as per the directions of the Engineer-in-charge of the work .**	**Cum**	**29.97**	**7382.90**	**221295.0446**
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		29.97		
38	**Supplying , fitting and placingTMT bar Fe 550 reinforcement in sub-structure complete as per drawing & technical specification complete as per the specification as per the directions of the Engineer-in-charge of the work .**	**Tonne**	**4.05**	**67205.06**	**272180.493**

k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		4.05		
39	**Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method as per the directions of the Engineer-in-charge of the work .**	**Cum**	**254.10**	**1665.26**	**423142.566**
k	Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division.		254.10		
1	**Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**7483.71**	**166.42**	**1245438.25**
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		768.66		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		955.93		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		462.21		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1015.52		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		524.88		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1188.46		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		678.93		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1055.50		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		833.62		

40	**Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .(Road)**	**Cum**	**13.20**	**5159.02**	**68099.06**
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		13.20		
41	**Removing B.S.slab of Drain and stacking as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**2129.05**	**65.72**	**139921.15**
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		265.12		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		179.46		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		149.35		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		329.33		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		112.43		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		331.17		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		212.35		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		292.85		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		257.01		
42	**Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**5212.24**	**13.78**	**71824.67**

l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		29.89		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		2944.08		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3.54		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3.75		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1203.53		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1027.46		
43	**Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen as per the directions of the Engineer-in-charge of the work .**	**Cum**	**273.64**	**5730.36**	**1568070.67**
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		1.57		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		154.56		
n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.19		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		0.20		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		63.19		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		53.94		
44	**Providing Plastic to Bituminous concrete @ 8%**	**Kg**	**31258.43**	**28.62**	**894616.39**
l	Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 Vidyaranyapura Sub Division.		3484.99		
m	Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 Vidyaranyapura Sub Division.		4282.70		

n	Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		1710.68		
o	Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		4366.31		
p	Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 Vidyaranyapura Sub Division.		2719.38		
q	Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		4306.35		
r	Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3662.72		
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3177.40		
u	Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		3547.89		
45	**Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specification and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**313.20**	**827.86**	**259285.75**
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		313.20		
20	**Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Cum**	**313.20**	**3986.66**	**1248621.91**
s	Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		313.20		

46	**Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work .**	**Sqm**	**92.80**	**685.82**	**63644.10**
s	Improvements and Asphalting to Roads and Drains at NTI Layout. Defence Layout. BEL Layout and Surrounding areas in Ward No. 09 Vidyaranyapura Sub Division.		92.80		
47	**LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency>130lm/w at 1W & FixtureEfficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility**	**Each**	**88.00**	**18720.00**	**1647360.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		88.00		
48	**Supplying and Fixing of..... mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe as per the directions of the Engineer-in-charge of the work .**	**Each**	**135.00**	**893.00**	**120555.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		135.00		

49	**Wiring for lighting/power circuit using one of PVC insulated 1100v grade stranded Aluminium unsheathed wire single core/multi core cable in open or consealed system of wiring. a)4 sqmm. as per the directions of the Engineer-in-charge of the work .**	**Each**	**440.00**	**7.50**	**3300.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		440.00		
50	**Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of ROUP-A.3.5 core 25sqmm as per the directions of the Engineer-in-charge of the work .**	**Per Mtr**	**150.00**	**165.60**	**24840.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		150.00		
51	**Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.25 sqmm to 75 sqmm as per the directions of the Engineer-in-charge of the work .**	**Per Mtr**	**150.00**	**34.80**	**5220.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		150.00		
52	**Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and Communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.**	**Each**	**22.00**	**51500.00**	**1133000.00**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		22.00		

53	**Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes25 sqmm Long Barrel as per the directions of the**	**Each**	**55.00**	**20.59**	**1132.45**
t	Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 Vidyaranyapura Sub Division.		55.00		
				Sub Total	**106776618.14**
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)				2154456
				Miscellenious and rounding	68925
				TOTAL AMOUNT	**109000000**
					TEN CRORE NINETY LAKHS ONLY

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಂಖ್ಯೆ: ಬೃ.ಬೆಂ.ಮ.ಪಾ/ಕಾ.ಅ/ಬ್ಯಾ.ವಿ/ಆ.ಅ/ 64 /2018-19.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರವರ ಕಛೇರಿ
ಬ್ಯಾಟರಾಯನಪುರ, ಬೃ.ಬೆಂ.ಮ.ಪಾ.
ಬೆಂಗಳೂರು-92
ದಿನಾಂಕ: 25/09/2018

ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ

ವಿಷಯ:-	**Package No. 03 (Package consists of 21 works).** 1) Improvements to Roads and Drains in Kodigehalli Village Gramatana Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 2) Improvements and development of parks at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 3) Improvements of Roads and drains at Defense Colony and CQAL Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 100.00 lakhs 4) Improvements of Roads and drains at Muneshwara Block at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 5) Improvements of Roads and drains at Maruthinagara, Bhadrappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 6) Improvements of Roads and drains to Railway Track to Tatanagara BESCOM Office road at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 7) Improvements of Roads and drains at Shanbog Narayanappa Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 8) Improvements of Roads and drains at Balaji Layout at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 9) Improvements of Roads and drains at Lottegollahalli at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 10) Improvements of Roads and drains at B.B.Nagara at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 50.00 lakhs 11) Improvements of Roads and drains at Kodigehalli Ward No. 08 (Kodigehalli), Kodigehalli Sub Division. Rs. 90.00 lakhs 12) Improvements and Asphalting to Roads and Drains at Virupakshapura and Surrounding Area in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 40.00 lakhs 13) Improvements and Asphalting to Roads and Drains at Thindlu and Surrounding area in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 60.00 lakhs 14) Improvements and Asphalting to Roads and Drains at Canara Bank layout and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 20.00 lakhs 15) Improvements and Asphalting to Roads and Drains at Sir MV layout, Siddivinayaka, Ananda layout and Surrounding areas in Ward No. 09 Rs. 50.00 lakhs 16) Improvements and Asphalting to Main Road in Kempegowdanagara in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 30.00 lakhs 17) Improvements and Asphalting to Roads and Drains at HMT Layout, IECHS Layout and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 50.00 lakhs 18) Improvements and Asphalting to Roads and Drains at Telecom Layout, Ganeshnagara and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 45.00 lakhs 19) Improvements and Asphalting to Roads and Drains at NTI Layout, Defence Layout, BEL Layout and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 75.00 lakhs 20) Providing and Installing LED Street Lights with Timer and fittings in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division Rs. 30.00 lakhs 21) Improvements and Asphalting to Roads and Drains at Krishna Temple area, Deshabandunagara, Chikkavenkatappa Layout and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division. Rs. 50.00 lakhs
ಉಲ್ಲೇಖ:1.	Govt Order No. ನಅಇ.260 ಎಂಎನ್‌ವೈ 2018 ದಿನಾಂಕ:14.08.2018

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ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ಕೊಡಿಗೇಹಳ್ಳಿ/ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ) ರವರು ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಯಲಹಂಕ ವಲಯದಲ್ಲಿ P3158 SIP Infrastructure Project works" ರ ಅಡಿಯಲ್ಲಿ ಉಲ್ಲೇಖ(2)ರಲ್ಲಿರುವ 21 ಕಾಮಗಾರಿಗಳನ್ನು ಪ್ಯಾಕೇಜ್ ಟೆಂಡರ್‌ನಂತೆ ಕೈಗೊಳ್ಳಲು ರೂ. 1090.00 ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಿಲಾಗಿದೆ. ಸದರಿ ಕಾಮಗಾರಿಗೆ ಫನಸರ್ಕಾರದಿಂದ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ನಿರೀಕ್ಷಿಸಿ ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಯಲಹಂಕ ವಲಯ ರವರಿಂದ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಪಡೆದು ಟೆಂಡರ್ ಪ್ರಕ್ರಿಯೆ ಕೈಗೊಳ್ಳಲಾಗಿರುತ್ತದೆ.

ಮುಂದುವರೆದು ಉಲ್ಲೇಖ(1)ರನ್ವಯ ಘನಸರ್ಕಾರದಿಂದ ಸದರಿ ಕಾಮಗಾರಿಗೆ ಘಟನ್ನೋತ್ತರ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ಟೆಂಡರ್ ಅನುಮೋದನೆ ನೀಡಲಾಗಿರುತ್ತದೆ. ಆದ್ದರಿಂದ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ಮಾನ್ಯ ಆಯುಕ್ತರವರು ಆದೇಶ ಸಂಖ್ಯೆ:ಬಿ12(1)ಪಿ.ಆರ್/394/2011-12 ದಿನಾಂಕ:02-09-2015ರಲ್ಲಿ ನೀಡಿರುವ ಅಧಿಕಾರದನ್ವಯ ಸದರಿ ಕಾಮಗಾರಿಗೆ ಕೆಳಕಂಡ ಷರತ್ತುಗಳನ್ವಯ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆಯನ್ನು ನೀಡಲಾಗಿದೆ.

ಷರತ್ತುಗಳು:

1. ರಸ್ತೆ ಇತಿಹಾಸ ಪುಸ್ತಕದಲ್ಲಿ (Road History book/Register) ಈ ಕೆಲಸದ ವಿವರಗಳನ್ನು ದಾಖಲಿಸಿ ಕ್ರಮಬದ್ದಗೊಳಿಸುವುದು.
2. ಕೆಲಸದ ಸ್ಥಳದಿಂದ ಸಾಗಣೆ ದೂರಕ್ಕೆ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
3. ಆರ್.ಸಿ.ಸಿ ಡೆಕ್‌ಸ್ಲಾಬ್, ಹರಿನೀರು ಮೋರಿಯ ಆಸರೆಗೋಡೆ ಮತ್ತು ಸೇತುವೆ ಕೆಲಸಗಳ ನಿರ್ವಹಣೆಗೆ ಮೊದಲು ವಿನ್ಯಾಸಕ್ಕೆ ಅನುಮೋದನೆ ಪಡೆಯುವುದು.
4. ಬಿ.ಎಂ./ಬಿ.ಸಿ. ಅಳವಡಿಸಿಕೊಂಡಿರುವ ರಸ್ತೆಗಳಿಗೆ ನಿಯಮಾನುಸಾರ ಪರೀಕ್ಷೆಗಳನ್ನು ಕೈಗೊಂಡು ಫಲಿತಾಂಶದ ವರದಿಗಳನ್ನು ಪಡೆದುಕೊಳ್ಳುವುದು.
5. ಸದರಿ ಕೆಲಸವು ಎಂಬ್ಯಾಕ್ ಮೆಂಟ್/ಕಾಂಕ್ರೀಟ್/ಡಾಂಬರೀಕರಣ-ಬಿಎಂ-ಬಿಸಿ /WMM-WBM ಕಾಮಗಾರಿಗಳಾಗಿದ್ದಲ್ಲಿ, MORT & H ಅನ್ವಯ ಗುಣಮಟ್ಟ ಪರೀಕ್ಷೆ ಹಾಗೂ Core-cut ಪರೀಕ್ಷೆಗಳನ್ನು ಕೈಗೊಂಡು ಫಲಿತಾಂಶವನ್ನು ಪಡೆದುಕೊಳ್ಳುವುದು.
6. ಮೇಲಿನ ಕೆಲಸದ ವೆಚ್ಚವನ್ನು ಉಪ ಅನುದಾನದಡಿಯಲ್ಲಿ ಭರಿಸುವುದು.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-92

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

ಪ್ರತಿಯನ್ನು:

1. ಮುಖ್ಯ ಅಭಿಯಂತರರು, ಯಲಹಂಕ ವಲಯ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆರವರ ಮಾಹಿತಿಗಾಗಿ.
2. ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು, ಕೋಡಿಗೇಹಳ್ಳಿ/ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ರವರಿಗೆ, ಸೂಕ್ತ ಕ್ರಮಕ್ಕಾಗಿ.
3. ಸಹಾಯಕ ಹಣಕಾಸು ನಿಯಂತ್ರಕರು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ರವರ ಮಾಹಿತಿಗಾಗಿ.
4. ಮುಖ್ಯ ಲೇಕ್ಕಾಧಿಕಾರಿಗಳು, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ರವರ ಮಾಹಿತಿಗಾಗಿ.